

Attached sheets

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(14) The laminated film specified in any one of items (1) to (13), wherein the longitudinal thermal expansion coefficient and transverse thermal expansion coefficient thereof are 3 to 45 ppm/°C.

(The laminated film specified items (1) to (14) is referred to as a first laminated film of the present invention.)

(15) A laminated film with a specific gravity of 0.2 to 1.2, including at least two film layers, wherein at least one of the film layers contains a thermoplastic resin composition and is biaxially oriented and at least another one of the film layers contains a non-ductile resin composition.

(16) The laminated film specified in item (15), wherein the biaxially oriented film layers are placed on both faces of the non-ductile resin composition-containing film layer.

(17) The laminated film specified in item (15) or (16), wherein the non-ductile resin composition contains a liquid-crystalline polymer.

(18) The laminated film specified in item (17), wherein the non-ductile resin composition further contains non-liquid-crystalline polyester.

(19) The laminated film specified in item (18), wherein the non-liquid-crystalline polyester is polyethylene terephthalate, polyethylene naphthalate, or a derivative of one of these polyesters.

(20) The laminated film specified in any one of items

It is critical that the second laminated film of the present invention has a specific gravity of 0.2 to 1.2. Also, the first laminated film of the present invention preferably has such a specific gravity. The laminated films of the present invention more preferably have a specific gravity of 0.3 to 1.0 and further more preferably 0.4 to 0.7. When the laminated films have a specific gravity of 1.2 or less, the films have a sufficient number of pours and therefore have good cushion properties; hence, the advantages of the present invention can be achieved. When the laminated films have a specific gravity of 0.2 or more, the number of the pours in the films is not excessive; hence, the strength and dimensional stability of the films are well balanced.

In a laminated films of the present invention, the longitudinal (MD) Young's modulus and transverse (TD) Young's modulus thereof are preferably 2 to 7 GPa. The lower limits of the moduli are preferably 2.5 GPa and more preferably 3 GPa. The upper limits of the moduli are preferably 6 GPa and more preferably 5 GPa. When the moduli are 7 GPa or less, the laminated film can be prevented from being distorted or curled, that is, the film has high dimensional stability. When the moduli are 2 GPa or more, the laminated film is firm and easy to handle.

In a laminated film of the present invention, the longitudinal (MD) heat shrinkage and transverse (TD) heat